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(54) Title: PHENYL HETEROCYCLES AS CYCLOOXYGENASE-2 INHIBITORS

(57) Abstract

The invention encompasses the novel compound of formula (I) useful in the treatment of cyclooxygenase-2 mediated diseases. The invention also encompasses certain pharmaceutical compositions for treatment of cyclooxygenase-2 mediated diseases comprising compounds of formula (I).

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INTERNATIONAL SEARCH REPORT International Application No PCT/un 94/00318 A. CLASSIFICATION OF SUBJECT MATTER
IPC 5 C07D277/02 C07D275/02 C07D333/04 C07D307/02 A61K31/33 C07C307/02 C07C305/18 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 5 CO7D A61K CO7C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category * 1-33 WO,A,91 19708 (FUJISAWA PHARMACEUTICAL X CO.) 26 December 1991 see examples 1-33 WO, A, 94 15932 (SEARLE & CO.) 21 July 1994 1-22, * see example 13 * X 24-33 23 * see scheme IV, compound 15, p. 32; X see example 13, step 4 * 1-33 EP,A,O 087 629 (DU PONT DE NEMOURS) 7 Y September 1983 see pages 13-14 see page 8; table I

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.			
* Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
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"O" document referring to an oral disclosure, use, exhibition or other means	document is combined with one or more other such docu- ments, such combination being obvious to a person skilled in the art.			
'P' document published prior to the international filing date but later than the priority date claimed	'&' document member of the same patent family			
Date of the actual completion of the international search	Date of mailing of the international search report			
25 January 1995	0 7. 03. 95			
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European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Lauro, P			

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/... 94/00318

		PCT/ 94/00318
C.(Continua	aon) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y .	CHEMICAL ABSTRACTS, vol. 113, no. 21, 19 November 1990, Columbus, Ohio, US; abstract no. 184393m, page 33; & J. PHARMACOL. EXP. THER., vol.254, no.1, 1990 pages 180 - 187 GANS,K; GALBRAITH,W; ROMAN R. ET AL. 'Anti-inflammatory and safety profile of DuP 697, a novel orally effective prostaglandin synthesis inhibitor' * see abstract *	1-33
Y	EP,A,O 388 909 (FUJISAWA PHARMACEUTICAL CO.) 26 September 1990 see claim 1 see page 9 - page 11	1-33
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INTERNATIONAL SEARCH REPORT

Interna al application No.
PCT/CA94/00318

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	rnational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	,
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	Please see attached sheet ./.
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Int	ernational Searching Authority found multiple inventions in this international application, as follows:
	<u>.</u>
1. 🗀	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. 🗌	As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest
	No protest accompanied the payment of additional search fees.

iii) Incomplete search

In the light of the variety of (hetero)cyclic rings and the nature of their substituents, a meaningful search of the subject-matter of the claims 1-18, 27-33 could not be carried out (Article 17 (2)(a)(ii) PCT). The search has been limited to the examples, i.e. to the exemplified heterocyclic rings substituted with an additional phenyl ring or cyclohexyl adjycent to the sulfonyl-substituted phenyl.

INTERNATIONAL SEARCH REPORT

L... amation on patent family members

Internati^{- 1} Application No PCT/LA 94/00318

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